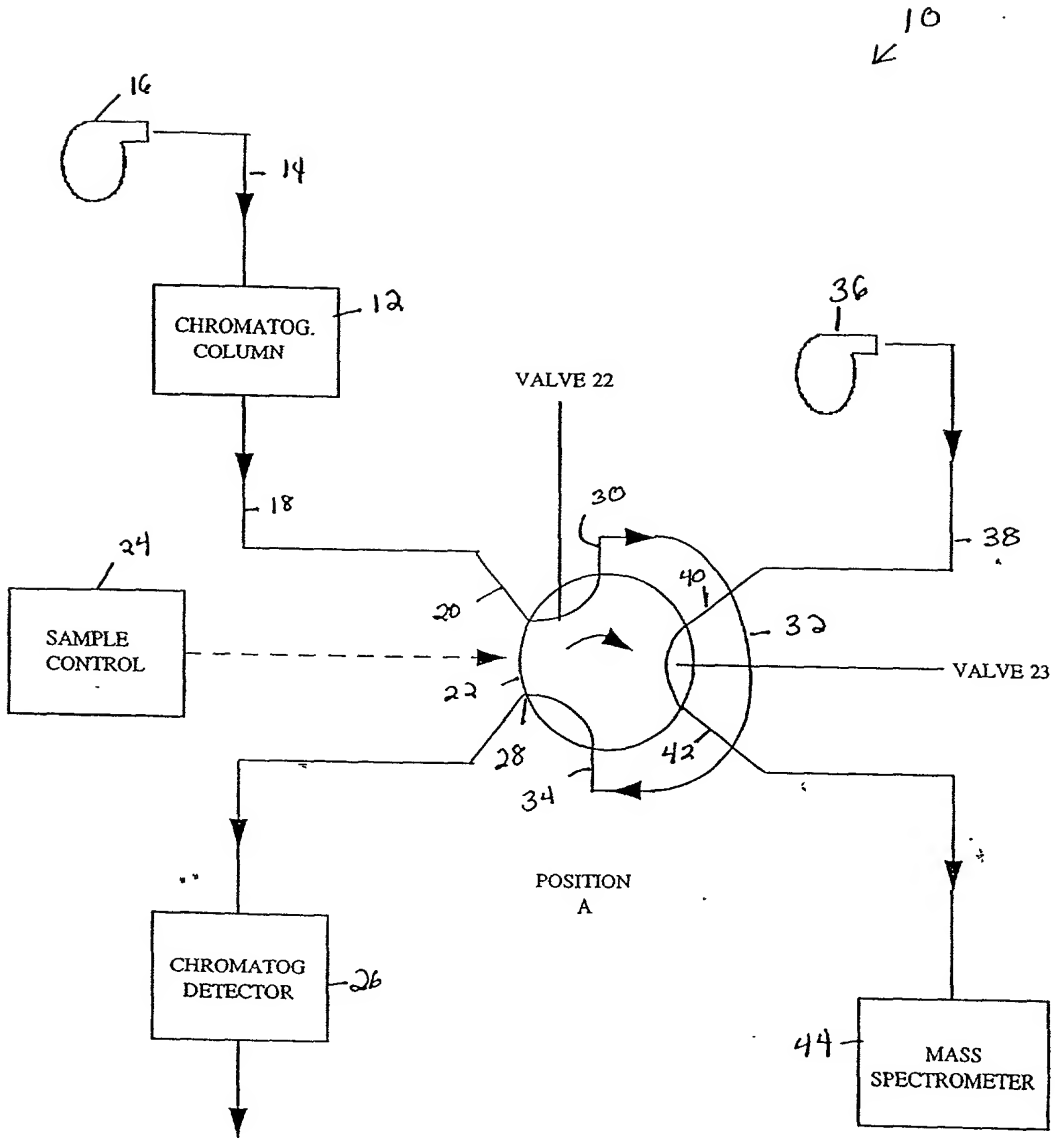
10
16
14
CHROMATOG. COLUMN
12
36
VALVE 22
18
30
38
24
40
SAMPLE CONTROL
20
32
VALVE 23
22
28
42
34
POSITION A
CHROMATOG DETECTOR
26
44
MASS SPECTROMETER

Fig. 1

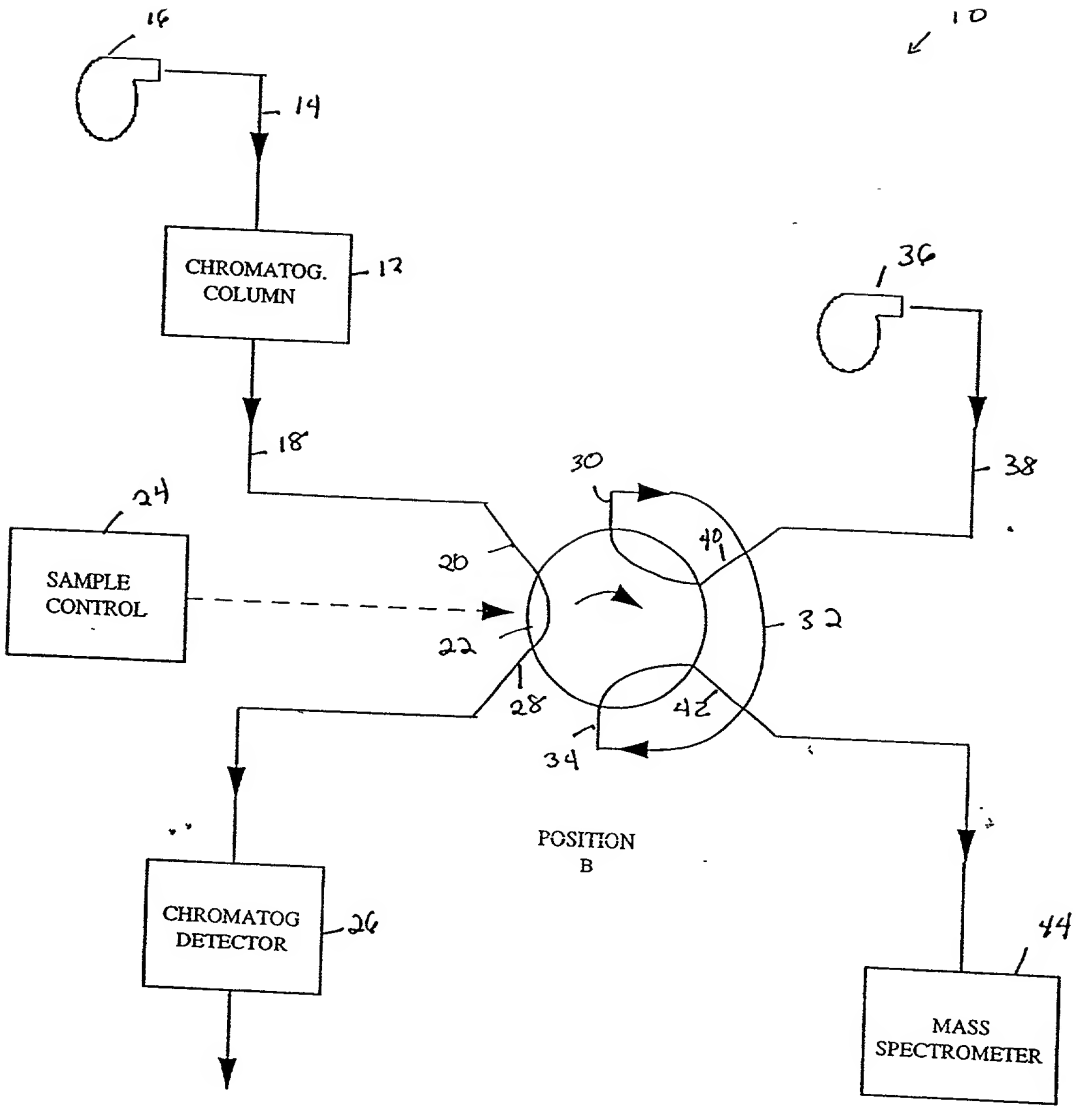
16
10
14
CHROMATOG. COLUMN
12
36
18
30
38
24
SAMPLE CONTROL
20
40
32
22
28
42
34
POSITION B
CHROMATOG DETECTOR
26
44
MASS SPECTROMETER

Fig. 2

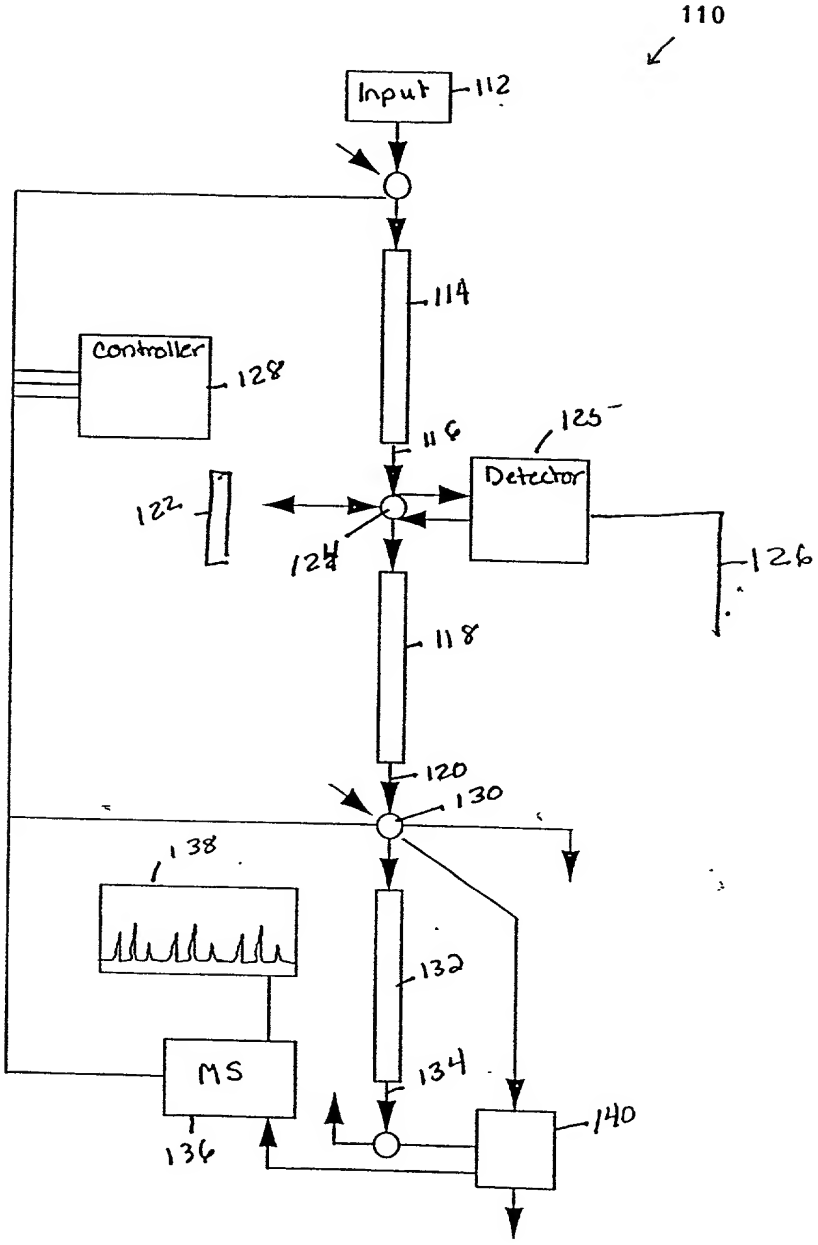
110
Input
112
114
Controller
128
116
125
Detector
122
124
126
118
120
130
138
132
MS
134
136
140

Fig. 3

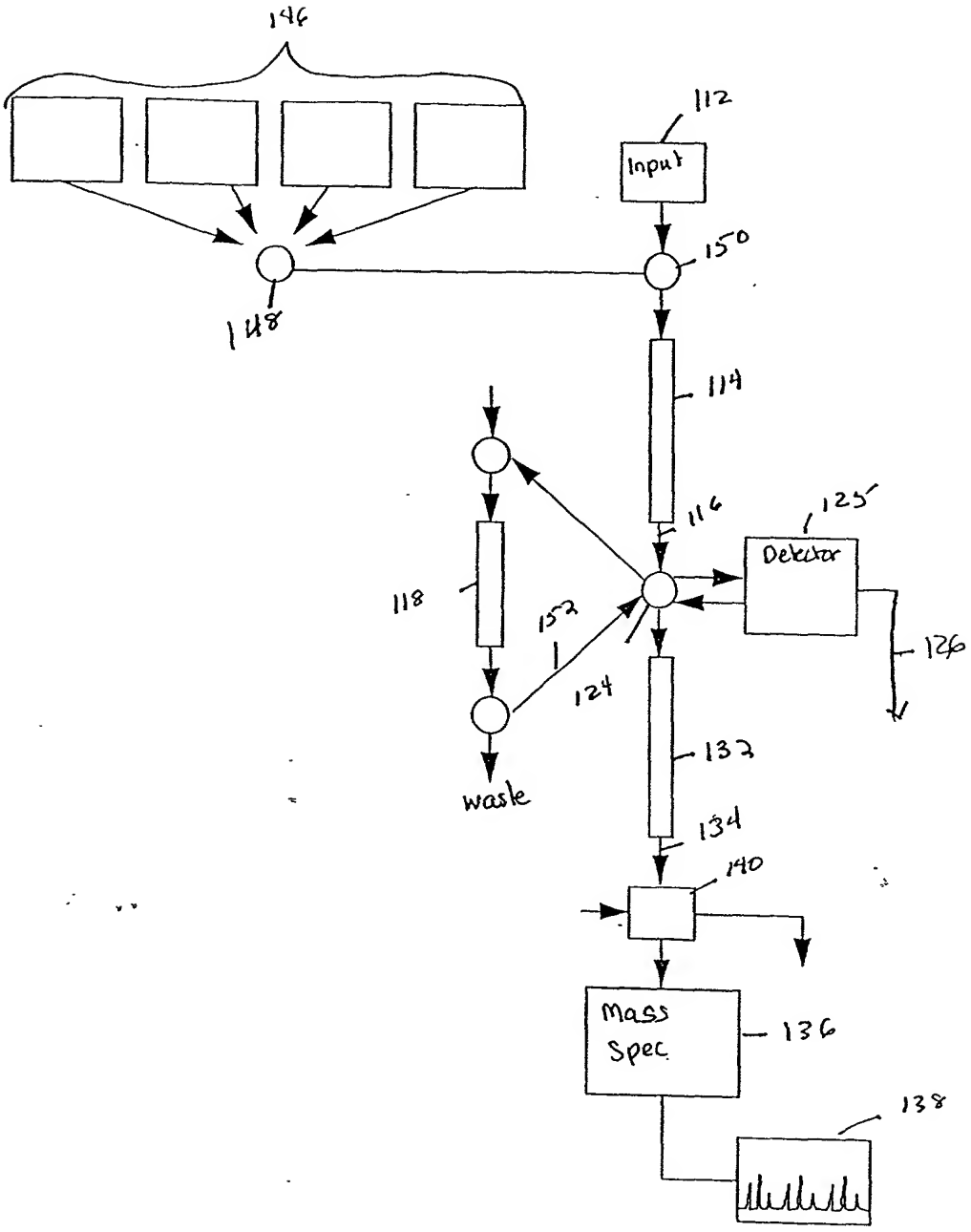
146
112
Input
150
148
114
116
125
Detector
118
152
126
124
132
waste
134
140
Mass
Spec
136
138

Fig. 4

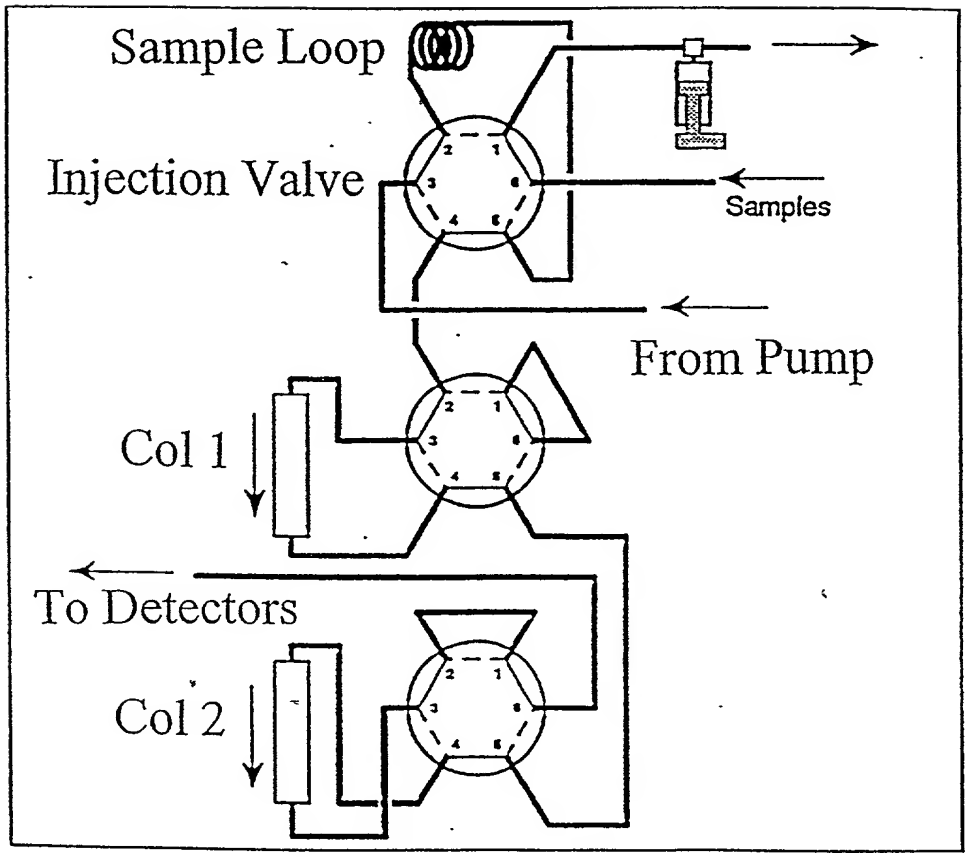
Sample Loop
Injection Valve
Samples
From Pump
Col 1
To Detectors
Col 2

Fig. 5

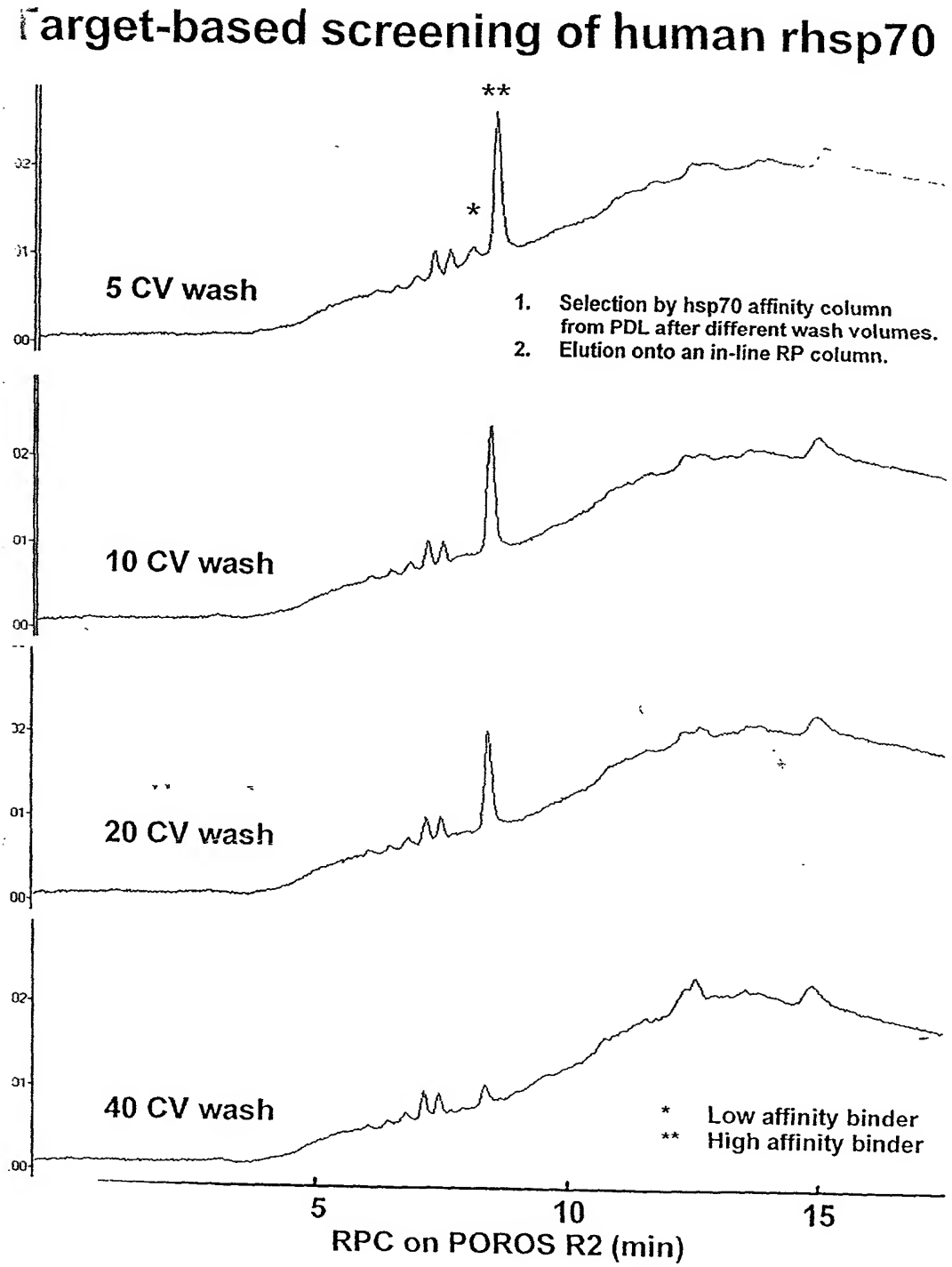
Target-based screening of human rhsp70
**
*
5 CV wash
1. Selection by hsp70 affinity column from PDL after different wash volumes.
2. Elution onto an in-line RP column.
10 CV wash
20 CV wash
40 CV wash
* Low affinity binder
** High affinity binder
5
10
15
RPC on POROS R2 (min)

Fig. 6

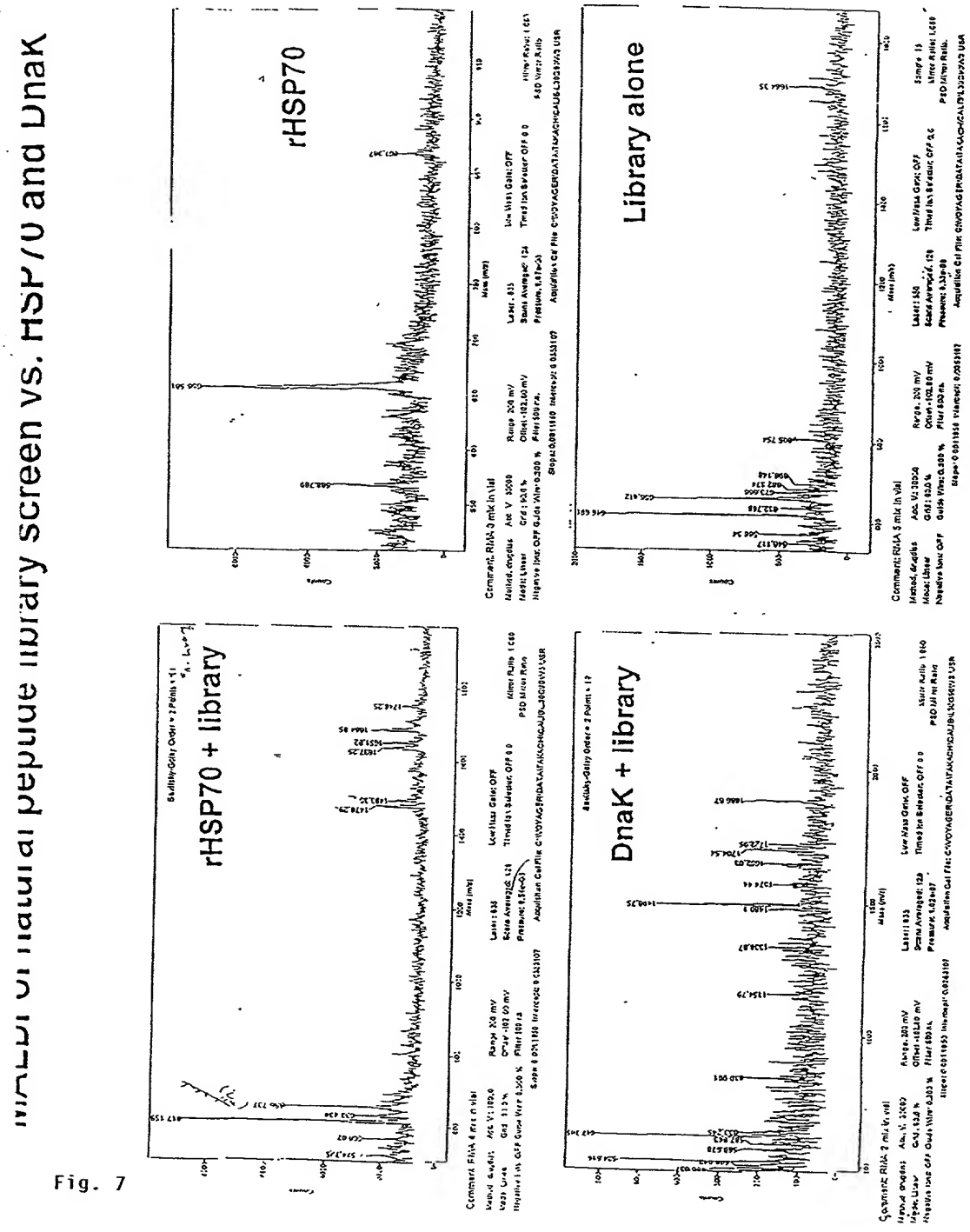

Fig. 7

Identification of Peptide sequences binding to Concanavalin A in a sugar-specific manner*

Ranking amino acids from greatest to least enrichment over control

No Incubation on-column

Cycle #					
1	H	R	Q	N	
2	H	N	Q		
3	R	H D Q N			
4	S	R	W	Y	
5	Y	R	Q		

30min incubation on-column

Cycle #							
1	W	H	Q	R	I	V	N
2	W	V	T	Q	I	P	
3	W	V	T	Q	D	E	
4	W	S	Q	V	E	N	
5	V	T	W	Q	E D G	N	R

*Table showing enrichment of amino acids at each cycle in the absence and presence of sugar

Fig. 8

Title: High Speed, Automated, Continuous Flow, Multi-Dimensional Molecular Selection and Analysis
Inventor(s): Jindal *et al.*
Serial No.: Division of U.S.S.N. 09/267,993
Atty Docket No.: SYP-101DV
Atty/Agent: Michael H. Brodowski
Express Mail Mailing Label No. EL902309032US